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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/784,270	02/24/2004	Yong Cheol Park	0465-1155P	9998

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EXAMINER

BIBBINS, LATANYA

ART UNIT	PAPER NUMBER
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2627

DATE MAILED: 11/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/784,270

Applicant(s)

PARK ET AL.

Examiner

LaTanya Bibbins

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 24 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 11 and 12 is/are rejected.
- 7) ☐ Claim(s) 5-10 and 13 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

2. The abstract of the disclosure is objected to because of its undue length. Applicant is reminded of the proper format for an abstract of the disclosure. The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet **within the range of 50 to 150 words**. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 2, and 4 are rejected under 35 U.S.C. 102(e) as being anticipated by Ueda et al. (US PGPub Number 2003/0137910 A1).

Regarding claim 1, Ueda discloses a method of defect management for a write-once optical recording medium having a plurality of temporary defect management areas (see Figure 6 and paragraph [0099]), the method comprising a step of recording disc definition structure information in at least one of the plurality of temporary defect management areas (see Figure 6 and paragraph [0099] where "defect management information contains disc definition structure data"), wherein the disc definition structure information includes continuously updated defect management information (see Figure 9 and paragraph [0115] where the DL start sector layer number, located in the DDS, is continuously updated) and locator information for accessing the continuously updated defect management information (see paragraph [0104], specifically the DL start sector number).

Regarding claim 2, Ueda discloses the method as claimed in claim 1, wherein the locator information corresponds to one of the plurality of temporary defect management areas (see Figure 7 where the DL start sector number, element 712, corresponds to defect management area DMA1, element 611).

Regarding claim 4, Ueda teaches the method as claimed in claim 1, wherein the number of temporary defect management areas is two (see paragraph [0017] where "each of the inner perimeter portion and outer perimeter portion of a disc has one defect management area").

5. Claims 11 and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamamoto et al. (US PGPub Number 2003/0142608 A1).

Regarding claim 11, Yamamoto discloses a write-once optical recording medium having a plurality of temporary defect management areas (see the first and second defect management information areas in Figure 1 elements 108 and 109), wherein defect management information is continuously updated and recorded in at least one of the temporary defect management areas (see paragraph [0103], specifically the discussion of step S504 where defect management information is updated).

Regarding claim 12, Yamamoto discloses the write-once optical recording medium as claimed in claim 11, wherein the continuously updated defect management information is recorded in each temporary defect management area (see paragraphs [0115] and [0117]).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ueda et al. (US PGPub Number 2003/0137910 A1).

Regarding claim 3, Ueda fails to teach the method as claimed in claim 1, wherein the locator information corresponds to each of the plurality of temporary defect management areas. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include locator information that corresponds to each of the plurality of temporary defect management areas. One of ordinary skill in the art at the time the invention was made would have been motivated to combine the teachings in order to produce an optical disc with highly reliable defect management.

Allowable Subject Matter

8. **Claims 5-10 and 13** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claims 5-10 and 13, none of the references of record, alone or in combination suggest or fairly teach a method of defect management for a write-once optical recording medium or a write-once recording medium, including all of the limitations of claims 1 and 11, wherein the plurality of temporary defect management areas includes a first temporary defect management area for **recording the continuously updated disc management information during a recording session** and a second temporary defect management area for **recording the continuously updated disc management information upon termination of the recording session**.

Citation of Relevant Prior Art

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Takahashi (US Patent Number 7,002,882 B2) teaches an information recording medium with a plurality of defect management areas. Ko et al. (US PGPub number 2001/0033537 A1) teaches a repeatedly recorded DMA with a DDS update counter.

Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to LaTanya Bibbins whose telephone number is (571) 270-1125. The examiner can normally be reached on Monday through Friday 7:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

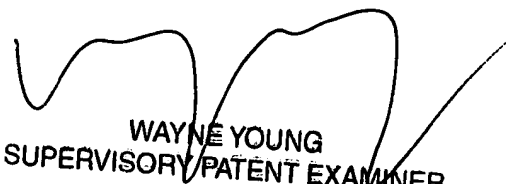
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



LaTanya Bibbins
Patent Examiner



WAYNE YOUNG
SUPERVISORY PATENT EXAMINER